



Nuclear Energy Research Initiative R&D Awards

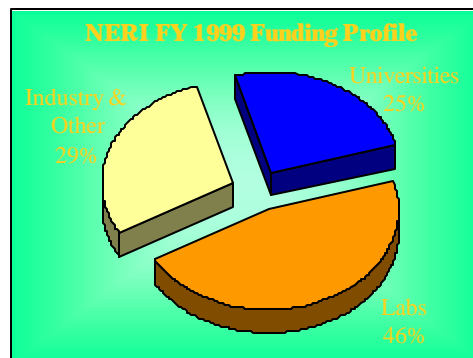
Office of Nuclear Energy, Science and Technology
U. S. Department of Energy

March 2003

FY 1999 R&D Awards:

- The NERI awards represent the revitalization of the Department of Energy's nuclear energy research program.
- 46 proposals were selected for award involving 45 U.S. and 11 foreign research organizations. 32 of the proposals involve collaborations of multiple organizations.
- The FY 1999 NERI appropriation was \$19 million. The duration of the awards is one to three years, with most being for a three-year period. The awards are funded annually. The total cost of these 46 research proposals was over \$52 million.

- Award Organization Profile:
 - 20 Universities
 - 8 National Laboratories
 - 16 Industrial Organizations
 - 1 Government R&D Agency
- International Collaboration:
 - 4 Universities
 - 5 Industrial Organizations
 - 2 Government R&D Organizations

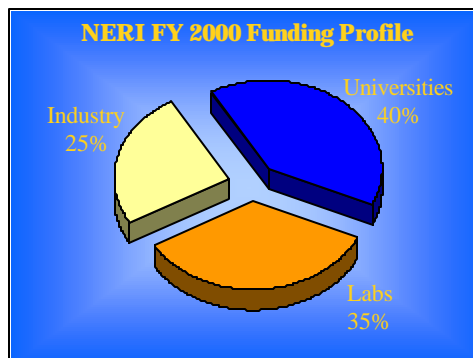


	<u>No. of Awards</u>
Proliferation-Resistant Reactors and/or Fuel Cycles	5
New Reactor Designs	
- High-Efficiency Reactors	4
- Low-Power Reactors	3
- Economics, Safety & Other	5
- Instrumentation & Controls	6
Advanced Nuclear Fuel	5
New Technology for Management of Nuclear Waste	5
Fundamental Nuclear Science	13
	<u>46</u>

FY 2000 R&D Awards:

- In FY 2000, 10 proposals were selected for award. The awards involve 18 U.S. and 6 foreign R&D organizations. 8 of the awards involve collaborations of multiple organizations.
- The FY 2000 NERI appropriation was \$22.5 million. Considering funding for the FY 1999 projects, \$2.7 million was available for new awards. The 10 new awards have durations of one-to-three years and are funded annually. The total cost for these 10 R&D projects is over \$9.5 million.

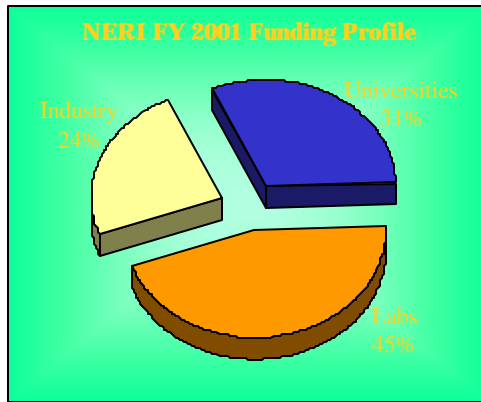
- Award Organization Profile:
 - 7 Universities
 - 5 National Laboratories
 - 6 Industrial Organizations
- International Collaboration:
 - 1 University
 - 5 Government-sponsored R&D Organizations



	<u>No. of Awards</u>
Generation IV Reactor Technology	8
Proliferation-Resistant Reactor & Fuel Technology	1
Fundamental Nuclear Science	1
	<u>10</u>

FY 2001 R&D Awards:

- In FY 2001, 13 proposals were selected for award. The awards involve 24 U.S. and 5 foreign R&D organizations. 12 of the 13 awards involve collaborations of multiple organizations.
- The FY 2001 NERI appropriation was \$34.8 million. Considering funding for International NERI (I-NERI) and the FY 1999 and FY 2000 NERI projects, \$5.9 million was available for new awards. The 13 new awards have durations of two-to-three years and are being funded annually. The total cost for these 13 R&D projects is approximately \$16.6 million.

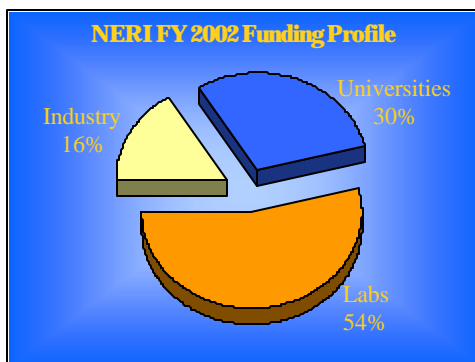


- Award Organization Profile:
 - 9 Universities
 - 7 DOE Laboratories
 - 8 Industrial Organizations
- International Collaboration:
 - 2 Universities
 - 2 Government-sponsored R&D Organizations
 - 1 Industrial R&D Organization

	<u>No. of Awards</u>
FY 2001 NERI awards address the following areas:	
Generation IV Reactor Technology	7
Proliferation-Resistant Reactor & Fuel Technology	1
Fundamental Nuclear Science	5
	<hr/> 13

FY 2002 R&D Awards:

- In FY 2002, 24 proposals were selected for award. These proposals involved 32 U.S. and 6 foreign R&D organizations. 21 of the 24 proposals involve collaborations of multiple organizations.
- The FY 2002 NERI appropriation is \$32 million. Considering funding for I-NERI and the FY 2000 and FY 2001 NERI projects initiated in FY 2000 and FY 2001, approximately \$10 million was used for new awards. The 24 new awards have durations of two-to-three years and are being funded annually. The total cost of these 24 R&D projects is approximately \$30.7 million.



- Award Organization Profile:
 - 14 Universities
 - 7 DOE Laboratories
 - 11 Industrial Organizations
- International Collaboration:
 - 2 Universities
 - 3 Government-sponsored R&D Organizations
 - 1 Industrial R&D Organization

	<u>No. of Awards</u>
FY 2002 NERI awards will address the following areas:	
- Advanced Nuclear Energy Systems	9
- Hydrogen Production from Nuclear Power	3
- Advanced Nuclear Fuels/Fuel Cycles	6
- Fundamental Nuclear Science	6
	<hr/> 24

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